

Title (en)
VIBRATION DAMPED RIVET BUCKING TOOL

Publication
EP 0049231 B1 19850320 (EN)

Application
EP 81850167 A 19810923

Priority
SE 8006874 A 19801001

Abstract (en)
[origin: EP0049231A2] A rivet bucking tool (10) is provided with a damping piston (13) having a skirt (18) thereon in which the shank (25) of a rivet bucking die (23) is freely removably received. This allows easy exchange of the dies (23) for piston recoii adaptation to rivets of different size and material. The area transformation between the shank (25) and the damping piston (13), the skirt (18) thereon, and the preferably airtight frictional fit of the skirt (18) around the shank (25) are utilized to convert bucking stress into vibration so as to reduce joint recoil of the damping piston (13) and die (23) during bucking. Vibration and recoil are absorbed in the tool housing (11) by compressed air in a damping chamber (42) wherein the pressure is selectively adjustable by a valve (28).

IPC 1-7
B21J 15/36

IPC 8 full level
B21J 15/00 (2006.01); **B21J 15/02** (2006.01); **B21J 15/16** (2006.01); **B21J 15/18** (2006.01); **B21J 15/30** (2006.01); **B21J 15/36** (2006.01)

CPC (source: EP US)
B21J 15/18 (2013.01 - EP US); **B21J 15/36** (2013.01 - EP US)

Cited by
CN103791024A; FR2546777A1

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
EP 0049231 A2 19820407; EP 0049231 A3 19820602; EP 0049231 B1 19850320; AU 545339 B2 19850711; AU 7579381 A 19820408; BR 8106346 A 19820622; CA 1159284 A 19831227; CS 242872 B2 19860515; CS 718681 A2 19850815; DE 3169414 D1 19850425; FI 66773 B 19840831; FI 66773 C 19841210; FI 813011 L 19820402; JP S5788935 A 19820603; SE 424513 B 19820726; SE 8006874 L 19820402; US 4398411 A 19830816

DOCDB simple family (application)
EP 81850167 A 19810923; AU 7579381 A 19810930; BR 8106346 A 19811001; CA 387032 A 19810930; CS 718681 A 19811001; DE 3169414 T 19810923; FI 813011 A 19810928; JP 15312681 A 19810929; SE 8006874 A 19801001; US 30730481 A 19810930